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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/780,648	02/19/2004		Kelly Libby	2331-001	2184
27522	7590	07/27/2006		EXAMINER	
SEAN W. C	GOODW	IN	LUKS, JEREMY AUSTIN		
222 PARKSI 602-12 AVE			ART UNIT	PAPER NUMBER	
CALGARY,		• •	2837	·	
CANADA			DATE MAILED: 07/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/780,648	LIBBY, KELLY						
Office Action Summary	Examiner	Art Unit						
	Jeremy Luks	2837						
The MAILING DATE of this communication a		with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REI	PLV IS SET TO EXPIRE 3	MONTH(S) OR THIRTY (30) DAYS						
WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may iod will apply and will expire SIX (6) MO titute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 19	February 2004.							
2a) This action is FINAL . 2b) ⊠ T	This action is FINAL . 2b)⊠ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.	.D. 11, 453 O.G. 213.						
Disposition of Claims								
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applicati	Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and	d/or election requirement.							
Application Papers								
9) ☐ The specification is objected to by the Exam								
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) Dobjected to	o by the Examiner.						
Applicant may not request that any objection to t								
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the								
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☒ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).						
1. Certified copies of the priority docume	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bur		-4						
* See the attached detailed Office action for a	list of the certified copies no	ot received.						
Attachment(s)	🗖							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
Notice of Draitsperson's Patent Drawing Review (F10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 3/17/04.		f Informal Patent Application (PTO-152)						

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Canada on 1/21/2004. It is noted, however, that applicant has not filed a certified copy of the Canadian application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hedrick (2,150,768) in view of MacKenzie (2,065,232).

With respect to Claims 1-4, 7-10, 15-17 and 19 Hedrick teaches a plurality of anti-reversionary devices (Figures 2 and 3) adapted to an exhaust conduit fit adjacent to an engine (Col. 2, Lines 33-35), having a bore through which gas flow to an internal combustion engine, comprising an inner pipe (Figure 1, #16) positioned substantially concentrically and co-axially within the bore of the conduit (10), a cylindrical housing (18) adapted to fit to the bore of the conduit (10) and an annular wall (15) extending to fit between the pipe (16) and the cylindrical housing (18), the annular wall (15) having a plurality of ports (Figure 2, #17) formed therein and about the inner pipe (Figure 1, #16), each port (17) forming a passage directed radially inward and downstream and wherein

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the inner pipe (16) has a tubular gas inlet projecting upstream from the annular wall (15) so that the annular wall (15) separates the gas flow into an annular gas flow and a central gas flow, the central gas flow being faster than the annular gas flow at the tubular gas inlet, and the annular gas flow accelerates through the plurality of passages (17) for directed discharge into the central gas flow (Col. 1, Line 34-Col. 2, Line 9). Hendrick fails to teach wherein the annular wall is a truncated cone, which is angled downstream from the inner pipe to the conduit. MacKenzie teaches a muffler (Figure 2) having an annular wall (67) is a truncated cone, which is angled downstream from an inner pipe (52) to a conduit (50), and where the conduit is an intake to an internal combustion engine. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus of Hedrick, with the apparatus of MacKenzie to better divert the gases to the annular and central passages, alleviating backpressure. Mackenzie fails to teach where the conduit is an intake to an internal combustion engine. However, Official Notice is taken that it is well known in the art that silencing devices and methods in internal combustion engines are interchangeably used with respect to the intake and exhaust ends of the flow path.

With respect to Claims 5-6, 13-14, 18 and 20, Hedrick and MacKenzie are relied upon for the reasons and disclosures set forth above. Hedrick and MacKenzie fail to teach wherein the passages are angled radially inward between 20 and 30 degrees. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to angle the passages radially inward between 20 and 30 degrees, since it has been held that where the general conditions of a claim are disclosed in the

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prior art, discovering the optimum or working range or value involves only routine skill in the art. In re Aller, 105 USPQ 233. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

With respect to Claims 11 and 12, Hedrick teaches wherein the housing (Figure 1, #18), annular wall (15) and inner pipe (16) are formed from a sheet material, having a wall thickness, which forms the passage (Figures 1 and 2, #17) through the annular wall (15). Further, the method of forming a device is not germane to the issue of patentability of the device itself. Therefore, this limitation has been given little patentable weight.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pertinent arts of record relating to anti-reversion apparatuses are disclosed in the PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy Luks whose telephone number is (571) 272-2707. The examiner can normally be reached on Monday-Thursday 8:30-6:00, and alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeremy Luks Patent Examiner Art Unit 2837